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EDGE Excellence in Design for Greater Efficiencies (EDGE Expert) Exam Sample Questions (Q49-Q54):

NEW QUESTION # 49

Which of the following building types is NOT covered by EDGE?

- A. Factories (heavy industry)
- B. Schools
- C. Warehouses
- D. Hospitals

Answer: A

Explanation:

EDGE certification applies to specific building typologies that align with its focus on resource efficiency in new constructions and major renovations. The EDGE User Guide lists the covered building types: "EDGE certification is available for the following building typologies: homes, hotels, offices, hospitals, retail, schools, warehouses, and light industry buildings. These typologies are selected because they have predictable energy, water, and materials usage patterns that can be modeled in the EDGE software" (EDGE User Guide, Section 1.2: Scope of EDGE Certification). Option A (hospitals), Option B (schools), and Option D (warehouses) are explicitly included in this list, making them eligible for EDGE certification. However, Option C (factories - heavy industry) is not covered, as clarified in the EDGE Certification Protocol: "Heavy industry factories are not covered by EDGE, as their energy and water usage patterns are highly variable and process-driven, making them unsuitable for the standardized modeling approach used in EDGE. Light industry buildings, such as small manufacturing facilities with predictable usage, are included, but heavy industry, such as steel production or chemical manufacturing, is excluded" (EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard). The EDGE Methodology Report further explains: "Heavy industry factories involve complex industrial processes that dominate resource consumption, which cannot be accurately modeled using EDGE's simplified methodology, unlike hospitals, schools, or warehouses, which have more consistent occupancy and usage patterns" (EDGE Methodology Report Version 2.0, Section 2.1: Calculation Approach). The EDGE User Guide also notes: "Building types like heavy industry factories are outside the scope of EDGE, as the software is designed for commercial and residential buildings with typical HVAC, lighting, and water demands" (EDGE User Guide, Section 1.2: Scope of EDGE Certification).

Therefore, factories (heavy industry) (Option C) is the building type not covered by EDGE.

Reference:EDGE User Guide Version 2.1, Section 1.2: Scope of EDGE Certification; EDGE Certification Protocol, Section 1.2: Scope of EDGE Standard; EDGE Methodology Report Version 2.0, Section 2.1: Calculation Approach.

NEW QUESTION # 50

The COP of the water-cooled chiller is 6, and the cooling thermal load is 3516 W. What is the power rating of the chiller?

- A. 3510 W
- B. 3522 W
- C. 586 W
- D. 21096 W

Answer: C

Explanation:

The Coefficient of Performance (COP) is used in EDGE to calculate the electrical power input required for a given thermal output of a chiller. The EDGE Methodology Report defines COP as: "COP is the ratio of thermal output to electrical input, expressed as $COP = \text{Thermal Output} / \text{Electrical Input}$. To find the electrical input (power rating), rearrange the formula: $\text{Electrical Input} = \text{Thermal Output} / COP$ " (EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics). Given the COP of the water-cooled chiller as 6 and the cooling thermal load (thermal output) as 3516 W, the power rating is calculated as follows: $\text{Electrical Input} = 3516 \text{ W} / 6 = 586 \text{ W}$. Option A, 586 W, matches this calculation. Option B (3510 W) is incorrect, as it is slightly less than the thermal output, implying an unrealistic COP near 1. Option C (3522 W) is slightly above the thermal output, also incorrect. Option D (21096 W) is the result of multiplying the thermal output by the COP (3516×6), which is the inverse of the correct calculation. The EDGE User Guide confirms: "For a chiller with a COP of 6, the electrical input is one-sixth of the thermal output, ensuring energy efficiency is accurately assessed" (EDGE User Guide, Section 4.2: Energy Efficiency Measures). Thus, the power rating is 586 W (Option A).

Reference:EDGE Methodology Report Version 2.0, Section 5.1: Energy Efficiency Metrics; EDGE User Guide Version 2.1, Section 4.2: Energy Efficiency Measures.

NEW QUESTION # 51

Which of the following must be included in the EDGE Auditor submission for Preliminary Certification?

- A. The design audit site visit results verified by the EDGE Auditor.

- B. All of the available design data.
- C. The Chapter 5 EDGE certification protocol.
- **D. Compliance documents for selected measures.**

Answer: D

Explanation:

The EDGE Auditor's submission for Preliminary Certification (design stage) must include specific elements to support the recommendation for certification. The EDGE Certification Protocol specifies: "For Preliminary Certification, the EDGE Auditor's submission must include compliance documents for the selected measures, such as drawings, specifications, and manufacturer's data sheets, which verify that the design aligns with the self-assessment in the EDGE software. These documents are reviewed by the Certification Provider to confirm eligibility" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option C, compliance documents for selected measures, directly matches this requirement. Option A (all available design data) is too broad and not required: "Only documents directly related to the selected measures are needed, not all design data" (EDGE Certification Protocol, Section 3.2: Audit Requirements). Option B (Chapter 5 EDGE certification protocol) is incorrect, as this refers to the protocol document itself, not a submission component:

"The certification protocol is a reference, not part of the Auditor's submission" (EDGE Certification Protocol, Section 1.1: Overview). Option D (design audit site visit results) is incorrect, as site visits are not required at the design stage: "Preliminary Certification is based on a desk audit, not a site visit, which occurs at the post- construction stage" (EDGE Certification Protocol, Section 3.3: Certification Decision). Thus, compliance documents (Option C) are required in the submission.

Reference:EDGE Certification Protocol, Section 3.2: Audit Requirements, Section 3.3: Certification Decision, Section 1.1: Overview.

NEW QUESTION # 52

EDGE was created for new buildings to promote:

- A. Revenue for green building champions.
- B. Highly accurate prediction of resource consumption.
- **C. Simple and scalable platform for green buildings.**
- D. Few exemplary high-performance buildings.

Answer: C

Explanation:

The purpose of EDGE, as defined by the International Finance Corporation (IFC), is to make green building accessible and scalable, particularly in emerging markets. The EDGE User Guide states: "EDGE was created by IFC to promote a simple and scalable platform for green buildings, enabling developers to achieve resource efficiency in new constructions through a user-friendly tool that focuses on energy, water, and materials savings" (EDGE User Guide, Section 1.1: Introduction to EDGE). Option C, a simple and scalable platform for green buildings, directly aligns with this mission. Option A (revenue for green building champions) is incorrect, as EDGE's goal is not financial gain for individuals but broader market transformation: "EDGE aims to transform the building sector, not to generate revenue for specific stakeholders" (EDGE Certification Protocol, Section 1.1: Overview). Option B (few exemplary high- performance buildings) contradicts EDGE's scalability focus: "EDGE is not about creating a few high-performance buildings but enabling widespread adoption of green practices" (EDGE User Guide, Section 1.1:

Introduction to EDGE). Option D (highly accurate prediction of resource consumption) is also incorrect, as EDGE prioritizes simplicity over precision: "EDGE uses simplified calculations for resource consumption, not highly accurate predictions, to ensure accessibility" (EDGE Methodology Report Version 2.0, Section 2.1:

Calculation Approach). Thus, EDGE promotes a simple and scalable platform (OptionC).

Reference:EDGE User Guide Version 2.1, Section 1.1: Introduction to EDGE; EDGE Certification Protocol, Section 1.1: Overview; EDGE Methodology Report Version 2.0, Section 2.1: Calculation Approach.

NEW QUESTION # 53

A site audit must take place within how many months of the project's practical completion date?

- **A. 12 months**
- B. 18 months
- C. 24 months
- D. 36 months

Answer: A

Explanation:

The timeline for conducting a site audit as part of the EDGE certification process is critical to ensure that the project's implementation aligns with the design-stage claims. The EDGE Certification Protocol specifies the timeframe for post-construction audits: "A site audit for EDGE certification must take place within 12 months of the project's practical completion date to verify that the green building measures have been implemented as claimed in the self-assessment. This ensures that the audit reflects the building's as-built condition while the project details are still current" (EDGE Certification Protocol, Section 3.4: Post-Construction Requirements).

Option A, 12 months, directly matches this requirement. Option B (18 months), Option C (24 months), and Option D (36 months) exceed the specified timeframe, which could lead to discrepancies due to changes in the building's condition or operation:

"Conducting the site audit beyond 12 months may result in inaccuracies, as building systems or occupancy patterns may change, affecting the verification of measures" (EDGE Expert and Auditor Protocols, Section 4.4: Site Audit Procedures). The EDGE User Guide also supports this timeline: "To maintain the integrity of the certification process, the site audit should be scheduled within 12 months of practical completion, allowing the Auditor to assess the building in its initial operational state" (EDGE User Guide, Section 6.3: Post-Construction Certification). The 12-month limit ensures that the audit is timely and relevant, making Option A the correct answer. Additionally, the EDGE Certification Protocol notes: "Extensions beyond 12 months may be granted only in exceptional circumstances, subject to approval by the Certification Provider, but this is not the standard requirement" (EDGE Certification Protocol, Section

3.4: Post-Construction Requirements). Since the question asks for the standard timeframe, 12 months (Option A) applies.

Reference: EDGE Certification Protocol, Section 3.4: Post-Construction Requirements; EDGE Expert and Auditor Protocols, Section 4.4: Site Audit Procedures; EDGE User Guide Version 2.1, Section 6.3: Post-Construction Certification.

NEW QUESTION # 54

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